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BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

In re the Application of: Makoto TOMIOKA Group Art Unit: 2621

Application Number: 09/893,677 Examiner: David J. Czekaj

Filed: June 29, 2001 Confirmation No.: 9414

For: RIGID VIDEO-ENDOSCOPE SYSTEM

Attorney Docket Number: 010680

Customer Number: 38834

REPLY BRIEF

Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

September 26, 2007

Sir:

In response to the Examiner's Answer mailed July 26, 2007, the following is the Appellant's Reply Brief.

REMARKS

In the Examiner's Answer, the Examiner takes the position on page 6, lines 19-21, that in Figure 1 of <u>Takahashi</u>, the endoscope system comprises a set of three lenses 6, two of which are located in the inserting section 2 and the other being located in the camera head 3.

That is, in response to the Appellant's arguments that <u>Takahashi</u> fails to disclose or fairly suggest the features of claim 1 regarding wherein said camera head includes a part of said relay optical system, said image optical system and said solid-state image sensor, the Examiner essentially takes the position that the third relay lens of the relay lens section 6 from left to right, which is closest to the operating/holding section 3, is included in the operating/holding section or camera head section 3 in <u>Takahashi</u>.

However, it is the Appellant's position that the Examiner is mischaracterizing the teachings of <u>Takahashi</u>. More specifically, it is submitted that each of the relay lenses of the relay lens section 6 shown in Figure 1 of <u>Takahashi</u> are included in the insertion section 2 of the stereoscopic rigid-type endoscope 1 and are not included in the operating/holding section 3.

That is, <u>Takahashi</u> clearly discloses that the operating/holding section 3 has a relatively large diameter and it is connected with the insertion section 2. Please see column 4, lines 10-12 of <u>Takahashi</u>. As such, it is respectfully submitted that the operating/holding section 3 having a relatively large diameter can be clearly seen in Figure 1. Furthermore, it can also be seen that each of the relay lenses of the relay lens group 6 are clearly <u>not</u> included in the relatively large

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diameter of the operating/holding section 3 and instead are clearly included in the insertion section 2.

Moreover, it is submitted that <u>Takahashi</u> explicitly discloses that the insertion section 2 of the stereoscopic rigid-type endoscope 1 includes the relay lens section 6. Specifically, <u>Takahashi</u> discloses in column 4, lines 14-18, the following:

In the inserting section 2 of the stereoscopic rigid-type endoscope 1, an objective lens system 5 and a relay lens section 6 are arranged along an optical axis, in that order from the front end, to form a relay lens system 7, which is supported by a first support means.

Accordingly, in view of the above-noted disclosure of <u>Takahashi</u>, it is respectfully submitted that the Examiner's position that two of the lenses of the relay lens group 6 are included in the insertion section 2 and that the third lens is included in the camera head or operating/holding section 3 is completely without merit, since <u>Takahashi</u> explicitly discloses that the insertion section 2 includes the relay lens group 6 and that the operating/holding section 3 corresponds to the section shown in Figure 1 having the relatively large diameter which fails to include any of the relay lenses of the relay lens section 6.

Therefore, it is again submitted that <u>Takahashi</u> fails to disclose or fairly suggest the features of claim 1 regarding wherein said camera head includes a part of said relay optical system, said image optical system, and said solid-state image sensor.

Further, since the relay lens section 6 and relay lens system 7 are completely included in the inserting section 2 of the stereoscopic rigid-type endoscope 1, <u>Takahashi</u> also fails to disclose or fairly suggest that the inserting section 2 includes a **remaining part** of the relay lens section 6

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and relay lens system 7. Accordingly, it is submitted that <u>Takahashi</u> fails to disclose or fairly suggest the feature of claim 1 regarding wherein said front-end insertion section includes the objective optical system and a remaining part of the relay optical system.

Moreover, the image formed by the relay lens 6 is <u>not</u> inside the operation/holding section 3. As noted above, in Fig. 1 of <u>Takahashi</u>, the relay lens 6 is in the insertion section 2 and the image of an object is formed in the last lens of the relay lens. Further, while Lens 9a (or 9b) forms an image of the image on the CCD 1la (or 11b), these lenses correspond to the imaging optical system in claim 1, and are <u>not</u> a part of the relay optical system.

Accordingly, it is submitted that <u>Takahashi</u> fails to disclose or fairly suggest the feature of claim 1 regarding the relayed image is formed between the relay optical system and the imaging optical system in the camera head.

Moreover, it is respectfully submitted that the Examiner has failed to rely on the primary reference of Igarashi for teaching the above-noted features of claim 1.

In addition, as discussed above, neither reference, <u>Igarashi</u> and <u>Takahashi</u>, discloses or provide any suggest concerning including part of the relay optical system in a camera head. As such, it is submitted that the Examiner has failed to provide proper motivation for one of ordinary skill in the art to include part of a relay optical system in a camera head, and instead, the Examiner is merely relying on the teaching provided in Applicant's own disclosure, which constitutes impermissible hindsight.

Moreover, even if, assuming arguendo, Igarashi and Takahashi can be combined in the

manner suggest by the Examiner, such combination would still fail to disclose or fairly suggest

the features of claim 1 concerning wherein said camera head includes a part of said relay optical

system, said imaging optical system and said solid-stage image sensor, and the relayed image is

formed between the relay optical system and the imaging optical system in the camera head, and

wherein said front-end insertion section includes the objective optical system an, a remaining part

of the relay optical system; and the insertion section and camera head are detachable.

For at least these reasons, it is submitted that the Examiner has failed to establish a prima

facie case of obviousness and therefore the obviousness rejection of claims 1 and 3-18 should be

withdrawn.

Thus, for at least the above reasons, Appellant requests that the Honorable Board reverse

the Examiner's rejection.

If this paper is not timely filed, Appellant respectfully petitions for an appropriate

extension of time. The fees for such an extension or any other fees that may be due with respect

to this paper may be charged to Deposit Account No. 50-2866.

Respectfully submitted,

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